

DUNE Module of Opportunity Workshop

Wednesday 02 November 2022 - Friday 04 November 2022

Espacio ADEIT, Valencia (Spain)

Book of Abstracts

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4D LArTPCs: combined charge and light readout

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A global view on detector R&D roadmaps

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Cryogenic Resistive-WELL gaseous multiplier: towards a stable charge sensor in dual-phase TPCs

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DUNE physics and detector requirements

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Dark matter search strategies at the far detector

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External Radiological Backgrounds for the DUNE Experiment at Sanford Lab (REMOTE)

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LAr technology improvements to expand DUNE physics goals (REMOTE)

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LArPix (REMOTE)

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Laser Wakefield Acceleration for Calibration Test Beam at DUNE FD (REMOTE)

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LiquidO concept

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Long-baseline oscillation physics and non-standard scenarios

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Low-radioactivity underground argon production chain: the Dark-side experience

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Metalenses to increase light collection

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Optical readout of the ARIADNE LArTPC using a Timepix3-based camera

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Optimized Vertical Drift for FD3/FD4

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Public lecture (in Spanish): Benditos neutrinos

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Q-Pix charge readout design and prototyping

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Q-Pix light readout design, simulation and prototyping

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Reducing Electronic Noise in a Pixel-based LArTPC with a Pulsed-power Analog Front End

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SLoMo concept

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SoLAr concept

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Spectral photon sorting for neutrino detectors

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Summary of the 2019 MoO workshop at BNL

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Tau neutrinos (REMOTE)

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Technical developments towards Theia: a large-scale hybrid Cherenkov/scintillation detector

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The DUNE international project, the US particle physics roadmap, and deliverables for this workshop

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Theia concept

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Theory goals in solar and supernova neutrinos (REMOTE)

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Water-based liquid scintillator developments

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Welcome

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Why you should be excited about baryon number violation (REMOTE)

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Xe-doped LArTPC neutrinoless double beta decay concept

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